

## POSIDON - WB-57 #927 10/15/16 Science Report

**Aircraft:**

[WB-57 #927](#) (See full schedule)

**Date:**

Saturday, October 15, 2016

**Mission:**

POSIDON

**Mission Location:**

Guam

**Mission Summary:**

This flight provided an ideal opportunity to sample gases and clouds detrained from a tropical cyclone. The WB-57 profiled through the TTL throughout the flight, sampling cirrus just downstream of convection extending well above 50 kft and through thin cirrus up to the tropopause. Instruments performed well.

**Submitted by:**

Susan Kimi McFadden on 11/11/16

**File:**

 [POSIDON\\_RF03\\_report.pdf](#)

**Related Flight Report:**

### WB-57 #927 10/15/16

**Flight Number:**

9

**Payload Configuration:**

POSIDON

**Nav Data Collected:**

No

**Total Flight Time:**

4.8 hours

**Submitted by:**

Jasmine Gascar on 10/21/16

**Flight Segments:**

<b>From:</b>	PGUM	<b>To:</b>	PGUM
<b>Start:</b>	10/15/16 10:12 Z	<b>Finish:</b>	10/15/16 15:00 Z
<b>Flight Time:</b>	4.8 hours		
<b>Log Number:</b>	<a href="#">17W003</a>	<b>PI:</b>	Eric Jensen
<b>Funding Source:</b>	Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Payloads: MMS, DLH, CPI, 2DS, SO2, H2O, POPS, WAS, PANTHER AND 03 LITE. SATCOM type was INMARSAT. High flight. The mission flew approx. 250 nmi southwest of Guam and sampled outflow from TS Haima using several racetrack patterns prior to returning to Guam. A repeating climb/descend profile was executed during the mission.		

**Flight Hour Summary:**

	16W007	17W003
<b>Flight Hours Approved in SOFRS</b>	58	42
<b>Flight Hours Previously Approved</b>		50.5
<b>Total Used</b>	7.5	90.3
<b>Total Remaining</b>		2.2

**17W003 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
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<a href="#">10/01/16</a>	3	Ferry	4.4	4.4	88.1
<a href="#">10/02/16</a>	4	Ferry	5.7	10.1	82.4
<a href="#">10/03/16</a>	5	Ferry	5.9	16	76.5
<a href="#">10/09/16</a>	6	Ferry	4.2	20.2	72.3
<a href="#">10/12/16</a>	7	Science	5.7	25.9	66.6
<a href="#">10/14/16</a>	8	Science	5.3	31.2	61.3
<a href="#">10/15/16</a>	9	Science	4.8	36	56.5
<a href="#">10/18/16</a>	10	Science	5.7	41.7	50.8
<a href="#">10/19/16</a>	11	Science	5.7	47.4	45.1
<a href="#">10/21/16</a>	12	Science	5.6	53	39.5
<a href="#">10/24/16</a>	13	Check	1.3	54.3	38.2
<a href="#">10/25/16</a>	14	Science	4.5	58.8	33.7
<a href="#">10/26/16</a>	15	Science	5.5	64.3	28.2
<a href="#">10/28/16</a>	16	Science	5.4	69.7	22.8
<a href="#">10/31/16</a>	17	Ferry	5.2	74.9	17.6
<a href="#">11/01/16</a>	18	Ferry	5.9	80.8	11.7
<a href="#">11/02/16</a>	19	Ferry	5.6	86.4	6.1
<a href="#">11/03/16</a>	20	Ferry	3.9	90.3	2.2

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/POSIDON\\_-\\_WB-57\\_927\\_10\\_15\\_16\\_Science\\_Report?destination=node/45269](https://airbornescience.nasa.gov/science_reports/POSIDON_-_WB-57_927_10_15_16_Science_Report?destination=node/45269)

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

16W007 Flight Reports					
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">09/13/16</a>	1	Science	2.1	2.1	55.9
<a href="#">09/15/16</a>	2	Science	5.4	7.5	50.5